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(54) Title: NUCLEOBASE PHOSPHONATE ANALOGS FOR ANTIVIRAL TREATMENT

(57) Abstract: The present invention provides novel compounds with activity against infectious viruses. The compounds of the invention may inhibit retroviral reverse transcriptases and thus inhibit the replication of the virus. They are useful for treating human patients infected with a human retrovirus, such as human immunodeficiency virus (strains of HIV-1 or HIV-2) or human T-cell leukemia viruses (HTLV-I or HTLV-II) which results in acquired immunodeficiency syndrome (AIDS) and/or related diseases. The present invention also relates generally to the accumulation or retention of therapeutic compounds inside cells. The invention is more particularly related to attaining high concentrations of active metabolite molecules in HIV infected cells. Intracellular targeting may be achieved by methods and compositions which allow accumulation or retention of biologically active agents inside cells. Such effective targeting may be applicable to a variety of therapeutic formulations and procedures.